

We Claim:

1. A process for forming a negatively-charged, zwitterionic, or neutral complex for delivery to a cell, comprising: a) forming a cationic reverse micelle using amphipathic molecules, b) inserting a biologically active compound into the cationic reverse micelle, c) then changing the charge of the cationic reverse micelle to a negatively-charged, zwitterionic, or neutral reverse micelle and delivering it to the cell.
2. The process of claim 1 wherein the amphipathic molecule contains a reactive functional group.
3. The process of claim 2 wherein the reactive functional group consists of a group capable of participating in a polymerization reaction.
4. The process of claim 1 wherein the amphipathic molecule contains a labile bond.
5. The process of claim 4 wherein the labile bond consists of a disulfide bond.
6. The process of claim 5 wherein the amphipathic molecule contains a reactive functional group.
7. The process of claim 6 wherein the reactive functional group consists of a group capable of participating in a polymerization reaction.

8. The process of claim 4 wherein the amphipathic molecule contains a silicon – heteroatom bond.
9. The process of claim 8 wherein the amphipathic molecule contains a reactive functional group.
10. The process of claim 9 wherein the reactive functional group consists of a group capable of participating in a polymerization reaction.
11. The process of claim 4 wherein the amphipathic molecule contains an amide constructed from a compound having a substructure of succinic anhydride.
12. The process of claim 11 wherein the amphipathic molecule contains a reactive functional group.
13. The process of claim 12 wherein the reactive functional group consists of a group capable of participating in a polymerization reaction.
14. A process for forming a complex that is deliverable to a cell, comprising: inserting a cargo into a reversemicelle consisting of one or more amphipathic molecules wherein at least one of the amphipathic molecules contains a labile bond.
15. The process of claim 14 wherein the amphipathic molecule contains a reactive functional group.

16. The process of claim 15 wherein the reactive functional group consists of a group capable of participating in a polymerization reaction.
17. The process of claim 14 wherein the amphipathic molecule contains a disulfide bond.
18. The process of claim 17 wherein the amphipathic molecule contains a reactive functional group.
19. The process of claim 18 wherein the reactive functional group consists of a group capable of participating in a polymerization reaction.
20. The process of claim 14 wherein the amphipathic molecule contains a silicon – heteroatom bond.
21. The process of claim 20 wherein the amphipathic molecule contains a reactive functional group.
22. The process of claim 21 wherein the reactive functional group consists of a group capable of participating in a polymerization reaction.
23. The process of claim 14 wherein the amphipathic molecule contains an amide constructed from the compound having a substructure of succinic anhydride.
24. The process of claim 23 wherein the amphipathic molecule contains a reactive functional group.

25. The process of claim 24 wherein the reactive functional group consists of a group capable of participating in a polymerization reaction.
26. A negatively-charged, zwitterionic, or neutral compound which is deliverable to a mammalian cell, comprising: a negatively-charged, zwitterionic, or neutral micelle containing a biologically active molecule.